

### Listing of the Claims

1. (Previously Presented) An apparatus for providing a smooth interpolated video signal at any desired rate from a slower rate video signal comprising:
  - means for up-sampling the slower rate video signal to the desired rate; and
  - means for adaptively filtering the up-sampled slower rate video signal using a human vision model to produce the smooth interpolated video signal.
2. (Original) The apparatus as recited in claim 1 further comprising means for restoring a direct current level for the smooth interpolated video signal.
3. (Previously Presented) An apparatus for providing a smooth interpolated video signal at any desired rate from a slower rate video signal comprising:
  - a frame converter for up-sampling the slower rate video signal to produce an up-sampled video signal at the desired rate; and
  - an adaptive filter based on a human vision model for interpolating the up-sampled video signal to produce the smooth interpolated video signal.
4. (Previously Presented) The apparatus as recited in claim 3 further comprising a direct current restorer having as inputs the smooth interpolated video signal from the adaptive filter and the up-sampled video signal for restoring a direct current level in the smooth interpolated video signal.
5. (Previously Presented) A method of providing a smooth interpolated video signal at any desired rate from a slower rate video signal comprising the steps of:
  - up-sampling the slower rate video signal to the desired rate to produce an up-sampled video signal; and
  - adaptively filtering the up-sampled video signal according to a human vision model to produce the smooth interpolated video signal.

6. (Original) The method as recited in claim 5 further comprising the step of restoring a direct current level in the smooth interpolated video signal as a function of the up-sampled video signal.